

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
2 June 2005 (02.06.2005)

PCT

(10) International Publication Number
WO 2005/049804 A2

(51) International Patent Classification⁷:

C12N

(74) Agent: VORNDRAN, Charles; Thomas, Kayden, Horstemeier & Risley LLP, Suite 1750, 100 Galleria Parkway, Atlanta, GA 30339 (US).

(21) International Application Number:

PCT/US2004/038506

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date:

17 November 2004 (17.11.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/520,754	17 November 2003 (17.11.2003)	US
60/520,813	17 November 2003 (17.11.2003)	US
60/619,671	18 October 2004 (18.10.2004)	US

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (for all designated States except US): **GEORGIA TECH RESEARCH CORPORATION** [US/US]; 505 Tenth Street, N.E., Atlanta, GA 30332-0415 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **DOYLE, Donald, F.** [US/US]; 3740 Liberty Lane, Marietta, GA 30062-5928 (US). **SCHWIMMER, Lauren, J.** [US/US]; 3102 G Spring Hill Parkway, Smyrna, GA 30080 (US). **BAHAREH, Azizi** [US/US]; 275 13th Street, N.E., #711, Atlanta, GA 30309 (US).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ENGINEERING ENZYMES THROUGH GENETIC SELECTION

(57) Abstract: Methods and compositions for selecting transformed cells are provided. An exemplary method combines chemical complementation with genetic selection to identify desirable transformed cells

WO 2005/049804 A2